

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/004416

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61M15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 340 758 A (BESPAK PLC) 1 March 2000 (2000-03-01)	1-5, 8-31, 64-70
Y	page 9, line 27 - page 11, line 16 figures 8A, 8B, 9A-9C	6, 7
Y	WO 99/47099 A (SCHUCKMANN ALFRED VON ; HETZER ULRICH (DE); KUBLIK HEIKE (DE); HECKENM) 23 September 1999 (1999-09-23)	6, 7
A	page 14, line 27 - page 17, line 2 figures 12a, 12b, 13a, 13b, 14a, 14b	36-63
A	WO 90/13328 A (RIKER LABORATORIES INC) 15 November 1990 (1990-11-15) the whole document	1-31, 64-70

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

2 February 2005

Date of mailing of the international search report

08.03.2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Borowski, A

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004416

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/26720 A (BRUNNBERG LENNART ; OLSSON THOMAS (SE); SHL MEDICAL AB (SE)) 19 April 2001 (2001-04-19) the whole document	1-31, 64-70
A	US 5 769 073 A (EASON ET AL) 23 June 1998 (1998-06-23) figures 12,13	36-63

INTERNATIONAL SEARCH REPORT

national application No.
PCT/GB2004/004416

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 32-35
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy: a method of using an inhaler. The method includes inhaling through the mouthpiece to entrain a dose of medicament and carry it to the user's airway.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/GB2004 /004416

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-31, 64-70

Claims 1-31 and 64-70 essentially define an inhaler comprising an actuator.

2. claims: 36-63

Claims 36-63 essentially define an inhaler comprising a piercing head having primary and secondary cutting elements

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004416

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2340758	A	01-03-2000	NONE	
WO 9947099	A	23-09-1999	AT 245403 T	15-08-2003
			AU 744255 B2	21-02-2002
			AU 3062399 A	11-10-1999
			BR 9908815 A	21-11-2000
			CA 2323877 A1	23-09-1999
			CN 1316894 T	10-10-2001
			DE 69909764 D1	28-08-2003
			DE 69909764 T2	22-04-2004
			DK 1063957 T3	03-11-2003
			EE 200000547 A	15-02-2002
			EP 1063957 A1	03-01-2001
			ES 2201688 T3	16-03-2004
			HU 0101444 A2	28-09-2001
			ID 27532 A	12-04-2001
			JP 2002506686 T	05-03-2002
			NO 20004587 A	14-09-2000
			NZ 506811 A	28-08-2002
			PL 343869 A1	10-09-2001
			PT 1063957 T	28-11-2003
			WO 9947099 A1	23-09-1999
			SK 13802000 A3	12-02-2001
			TR 200002672 T2	21-12-2000
			ZA 200004768 A	27-06-2002
WO 9013328	A	15-11-1990	AT 138814 T	15-06-1996
			AT 224748 T	15-10-2002
			AU 643435 B2	18-11-1993
			AU 5539590 A	29-11-1990
			AU 644790 B2	23-12-1993
			AU 5558890 A	29-11-1990
			CA 2050298 A1	29-10-1990
			CA 2058764 A1	29-10-1990
			CA 2354096 A1	15-11-1990
			DE 69027319 D1	11-07-1996
			DE 69027319 T2	21-11-1996
			DE 69027679 D1	08-08-1996
			DE 69027679 T2	14-11-1996
			DE 69034007 D1	31-10-2002
			DE 69034007 T2	08-05-2003
			DK 470154 T3	21-10-1996
			DK 472598 T3	29-07-1996
			EP 0470154 A1	12-02-1992
			EP 0472598 A1	04-03-1992
			EP 0705614 A1	10-04-1996
			ES 2087911 T3	01-08-1996
			ES 2091825 T3	16-11-1996
			WO 9013327 A1	15-11-1990
			HK 1006546 A1	05-03-1999
			JP 5501505 T	25-03-1993
			JP 4504671 T	20-08-1992
			JP 3130925 B2	31-01-2001
			KR 178798 B1	01-04-1999
			NZ 233486 A	26-05-1995
			NZ 248275 A	26-05-1995
			WO 9013328 A1	15-11-1990
			US 5619984 A	15-04-1997

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9013328	A	US 5655523 A	12-08-1997
		US 5740793 A	21-04-1998
		US 6012454 A	11-01-2000
WO 0126720	A 19-04-2001	SE 521913 C2	16-12-2003
		SE 518512 C2	15-10-2002
		AT 271400 T	15-08-2004
		AU 1068401 A	23-04-2001
		DE 60012347 D1	26-08-2004
		EP 1220698 A1	10-07-2002
		WO 0126720 A1	19-04-2001
		SE 9903677 A	13-04-2001
		SE 0000092 A	14-07-2001
US 5769073	A 23-06-1998	AT 192341 T	15-05-2000
		AU 687489 B2	26-02-1998
		AU 1247095 A	03-07-1995
		BR 9408333 A	19-08-1997
		CA 2179202 A1	22-06-1995
		CN 1142779 A ,C	12-02-1997
		CZ 9601732 A3	16-10-1996
		DE 69424310 D1	08-06-2000
		DE 69424310 T2	04-01-2001
		DK 732952 T3	25-09-2000
		EE 3225 B1	15-10-1999
		EP 0732952 A1	25-09-1996
		ES 2148477 T3	16-10-2000
		FI 962520 A	17-06-1996
		WO 9516483 A1	22-06-1995
		GR 3034071 T3	30-11-2000
		HU 74234 A2	28-11-1996
		JP 9510367 T	21-10-1997
		JP 3597196 B2	02-12-2004
		NO 962562 A	17-06-1996
		NZ 277290 A	25-03-1998
		PL 314957 A1	30-09-1996
		PT 732952 T	31-10-2000
		RO 117070 B	30-10-2001
		RU 2139104 C1	10-10-1999
		SK 79796 A3	05-03-1997